

**Listing of Claims:**

1. (Currently Amended) A method in a data processing system for transferring data from a memory to a network adapter, the method comprising:

receiving a request to transfer data in the memory to a network adapter; and  
setting a transfer size to align the data with a cache line size if the amount of data to be transferred is unequal to the cache line size, wherein an amount of data is less than or equal to the transfer size, and wherein the amount of data to be transferred is in a frame and has a frame size.

2. (Canceled)

3. (Canceled)

4. (Original) The method of claim 1, wherein the cache line size is  $2^n$ , wherein n is a positive integer.

5. (Original) The method of claim 1, wherein the data is transferred from the memory to the network adapter through a bridge chip.

6. (Currently Amended) A method in a data processing system for transferring data from a memory to a network adapter, the method comprising:

identifying frame size for a transfer of the data from the memory to the network adapter;  
setting a length equal to a cache line size;  
if the frame size is divisible by a cache line size without a remainder, setting a valid data length equal to the length field; and  
if the frame size divided by the cache line size results in a remainder, setting the length field to align the data with the cache line size, wherein the length field is computed as

$$\text{length field} = (\text{FLOOR}(\text{frame size}/\text{CLS}) + 1) * \text{CLS},$$

wherein CLS is the cache length size.

7. (Canceled)

8. (Canceled)

9. (Currently Amended) A means in a data processing system for transferring data from a memory to a network adapter, the data processing system comprising:  
receiving means for receiving a request to transfer data in the memory to a network adapter; and  
setting means for setting a transfer size to align the data with a cache line size if the amount of data to be transferred is unequal to the cache line size, wherein an amount of data is less than or equal to the transfer size, and wherein the amount of data to be transferred is in a frame and has a frame size.
10. (Canceled)
11. (Canceled)
12. (Original) The data processing system of claim 9, wherein the cache line size is  $2^n$ , wherein n is a positive integer.
13. (Original) The data processing system of claim 9, wherein the data is transferred from the memory to the network adapter through a bridge chip.
14. (Currently Amended) A means in a data processing system for transferring data from a memory to a network adapter, the data processing system comprising:  
identifying means for identifying frame size for a transfer of the data from the memory to the network adapter;  
first setting means for setting a length equal to a cache line size;  
second, setting means for setting a valid data length equal to the length field if the frame size is divisible by a cache line size without a remainder; and  
third, setting means for setting length field to align the data with the cache line size if the frame size divided by the cache line size results in a remainder, wherein the length field is computed as  
 $\text{length field} = (\text{FLOOR}(\text{frame size}/\text{CLS})+1)*\text{CLS}$ ,  
wherein CLS is the cache length size.
15. (Canceled)
16. (Canceled)

17. (Currently Amended) A computer program product in a computer readable medium for transferring data from a memory to a network adapter, the computer program product comprising:

- first instructions for receiving a request to transfer data in the memory to a network adapter;
- second instructions for setting a transfer size to align the data with a cache line size if the amount of data to be transferred is unequal to the cache line size, wherein an amount of data is less than or equal to the transfer size, and wherein the amount of data to be transferred is in a frame and has a frame size;
- and
- third instructions for setting a valid length indicator, wherein the valid length indicator is set to the amount of data and wherein the network adapter outputs only the amount of data set by the valid length indicator after the data has been transferred to the network adapter.

18. (Currently Amended) A computer program product in a computer readable medium for transferring data from a memory to a network adapter, the computer program product comprising:

- first instructions for identifying frame size for a transfer of the data from the memory to the network adapter;
- second instructions for setting a length equal to a cache line size;
- if the frame size is divisible by a cache line size without a remainder, setting a valid data length equal to the length field; and
- if the frame size divided by the cache line size results in a remainder, setting the length field to align the data with the cache line size, wherein the length field is computed as  
 $\text{length field} = (\text{FLOOR}(\text{frame size}/\text{CLS}) + 1) * \text{CLS}$ ,  
wherein CLS is the cache length size; and
- third instructions for initiating a transfer of the data from the memory to the network adapter using the valid data length and the length field, wherein the network adapter only outputs data identified by the valid data length.

19. (Currently Amended) A server data processing system for obtaining cultural context information from a client, the server data processing system comprising:

- a bus system;
- a network adapter connected to the bus system;
- a memory connected to the bus system, wherein the memory includes a set of instructions; and
- a processing unit connected to the bus system, wherein the processing unit executes the set of instructions to receive a request to transfer data in the memory to the network adapter and set the transfer size to align the data with the cache line size if the amount of data to be transferred is unequal to the cache

line size, wherein the amount of data is less than or equal to the transfer size, wherein the amount of data to be transferred is in a frame and has a frame size, and wherein a valid length indicator is set to the amount of data and wherein the network adapter outputs only the amount of data set by the valid length indicator after the data has been transferred to the network adapter.

20. (Currently Amended) A server data processing system for obtaining cultural context information from a client, the server data processing system comprising:

a bus system;

a network adapter connected to the bus system;

a memory connected to the bus system, wherein the memory includes a set of instructions; and

a processing unit connected to the bus system, wherein the processing unit executes the set of instructions to identify the frame size for a transfer of the data from the memory to the network adapter; set the length equal to a cache line size; set the valid data length equal to the length field if the frame size is divisible by a cache line size without a remainder; and set the length field to align the data with the cache line size if the frame size divided by the cache line size results in a remainder, wherein the length field is computed as

$$\text{length field} = (\text{FLOOR}(\text{frame size}/\text{CLS}) + 1) * \text{CLS}$$

wherein CLS is the cache length size; and

third instructions for initiating a transfer of the data from the memory to the network adapter using the valid data length and the length field, wherein the network adapter only outputs data identified by the valid data length.